--ABSTRACT OF THE DISCLOSURE

A system for reducing noise in an acoustical signal comprises a sampler (104) for obtaining discrete samples of the acoustical signal, an analog to digital converter (106), and a noise suppression circuit (108). The noise suppression circuit (108) selects a fixed number of samples. These samples are multiplied by a windowing function and the fast Fourier transform is computed to yield transformed windowed signals. A smoothed power estimate and a noise estimate are calculated. The noise estimate and the smoothed power estimate is used to calculate a gain function. A transformed speech signal is obtained by multiplying the gain function with the transformed windowed signal. Then, the inversed fast Fourier transform of the transformed speech signal is added to a portion of the speech signal of a previous frame.--

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